

## THE LEPTOCERIDAE (TRICHOPTERA) OF WEST VIRGINIA<sup>1</sup>

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**ABSTRACT:** Over 9,000 adult leptocerids were identified from light trap samples throughout West Virginia. A total of 27 species, including 25 new state records, are reported for West Virginia. The most common species in the state included *Ceraclea cancellata*, *C. maculata*, *Oecetis avara*, and *O. inconspicua*. Species that were abundant only in the larger rivers of the western portion of the state included *C. flava*, *C. maculata*, *Nectopsyche pavida*, and *Triaenodes ignitus*. *Ceraclea neffi* was most abundant in the smaller, cooler, fast-flowing streams at the higher elevations in the eastern part of the state. *Ceraclea ophioderus* (IL, NC, SC), *C. slossonae* (FL, GA, PA, VA), and *C. wetzeli* (MI, PA) were important range extensions into West Virginia. The collection period ranged from 30 April (*O. inconspicua* and *T. ignita*) to 17 October (*O. cinerascens*).

Prior to this study, only two species of leptocerids had been reported from West Virginia: *Oecetis avara* (Banks) (Ross, 1944) and *Mystacides sepulchralis* (Walker) (Yamamoto and Wiggins, 1964). Based on the examination of 9,136 adult leptocerids from black light and Malaise traps, 27 species, including 25 new state records, are recorded from West Virginia.

Three important range extensions are noted: *Ceraclea ophioderus* (Ross) (IL, NC, SC); *C. slossonae* (Banks) (FL, GA, PA, VA); and *C. wetzeli* (Ross) (MI, PA).

The collection period ranged from 30 April, *Oecetis inconspicua* (Walker) and *Triaenodes ignitus* (Walker), to 17 October, *O. cinerascens* (Hagen). The only species that was collected exclusively in the early part of the year (30 April- 6 June) was *T. ignitus*. One male of *C. wetzeli* was collected on 14 May. Some species had extended flight periods beginning in May and extending into September.

Detailed collecting data are found in Glover (1988). All adults are stored in the West Virginia Benthological Survey at Marshall University.

### Collecting Stations

Collecting stations are listed alphabetically by county (in caps) and each station is assigned a number. The station numbers given below are shown on Figure 1. Stations number 34 and 47 are listed only as county because of incomplete information and are not shown on map. An

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annotation of the months of collection for each species is given in the species list.

BOONE: 1. Coal River; 2. Madison.

BRAXTON: 3. Burnsville Lake; 4. Falls Mill; 5. Little Kanawha River; 6. Sutton Lake.

CABELL: 7. Greenbottom Swamp; 8. Guyandotte River; 9. Ona; 10. Salt Rock.

GRANT: 11. North Fork of the South Branch of Potomac River; 12. South Branch of the Potomac River.

HAMPSHIRE: 13. Romney.

HANCOCK: 14. Newel.

HARDY: 15. Howards Lick Run; 16. Lost River; 17. Wardensville.

HARRISON: 18. Bridge Port.; 19. East View.

JACKSON: 20. Ravenswood; 21. Ripley.

JEFFERSON: 22. Harpers Ferry; 23. Kearneysville; 24. Shanandoah Junction.

KANAWHA: 25. Charleston; 26. Coal River; 27. Guthrie; 28. London Locks; 29. Marmet Locks.

MASON: 30. Flatfoot Creek; 31. Gallipolis; 32. Lakin; 33. McClintic Pond #16; 34. Ohio River; 35. Point Pleasant.

McDOWELL: 36. Iager.

MONONGALIA: 37. Triune.

MONROE: 38. Hollywood; 39. Union.

MORGAN: 40. Berkely Springs (Yamamoto and Wiggins, 1964).

NICHOLAS: 41. Gauley River; 42. Summersville Lake.

PENDLETON: 43. Seneca Rock; 44. Smoke Hole Camp.

POCAHONTAS: 45. Cranberry Glades; 46. Durbin; 47. Greenbrier River; 48. Marlinton

PRESTON: 49. Cranesville.

PUTNAM: 50. Hurricane; 51. Winfield Locks.

RALEIGH: 52. Beckley; 53. Daniels.

RANDOLPH: 54. Valley Bend.

RITCHIE: 55. Hughes River.

SUMMERS: 56. Bluestone River; 57. Bluestone Lake; 58. Hinton; 59. Pipestem.

TAYLOR: 60. Tygart River.

TYLER: 61. Middlebourne.

WAYNE: 62. Dickson dam; 63. Fort Gay; 64. Prichard; 65. Twelvepole Creek.

### List of Species

*Ceraclea cancellata* (Betten). Stations 1, 3, 6, 11, 14, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 34, 38, 43, 46, 47, 48, 50, 52, 58, 62. 4 June - 14 August.

*Ceraclea diluta* (Hagen). Station 46. 5 July; one male.

*Ceraclea flava* (Banks). Stations 25, 27, 28, 32, 42. 6 June - 23 July.

*Ceraclea maculata* (Banks). Stations 3, 6, 14, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 32, 34, 37, 38, 39, 50, 51, 58, 62, 63, 64. 8 June - 15 September.

*Ceraclea neffi* (Resh). Stations 5, 6, 43, 46, 57, 58, 59. 6 June - 26 August.

*Ceraclea ophioderus* (Ross). Station 58. 6 June - 22 August.

*Ceraclea slossonae* (Banks). Station 13. Collection date unknown.

*Ceraclea tarsipunctata* (Vorhies). Stations 4, 24, 25, 26, 27, 28, 58, 62, 63, 64. 7 June - 22 July.

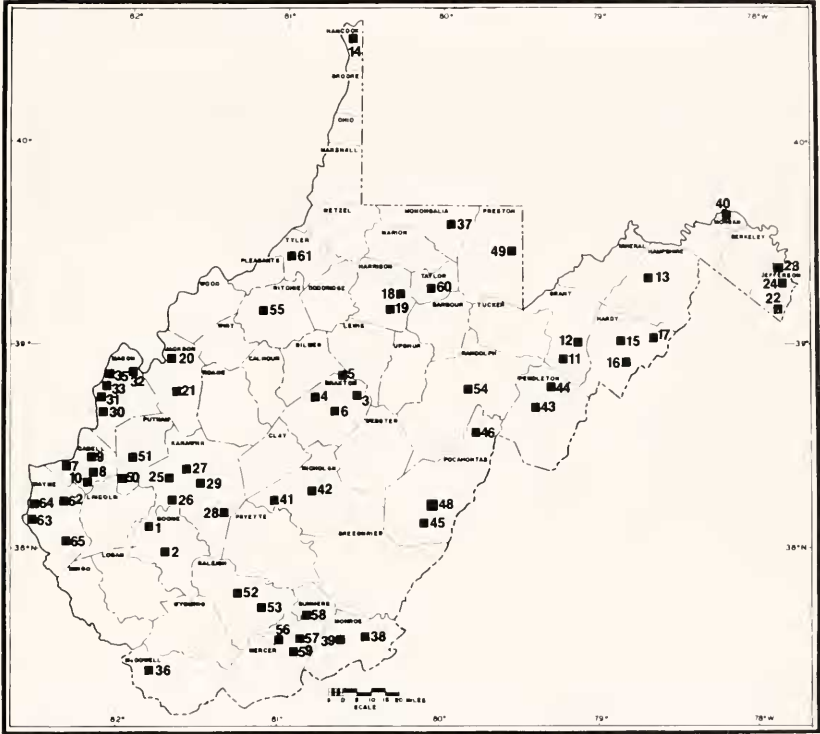


Fig. 1. Collection sites for adult Leptoceridae in West Virginia.

- Ceraclea transversa* (Hagen). Stations 4, 26, 28, 31, 38, 42, 46, 58. 29 June - 1 September.
- Ceraclea wetzeli* (Ross). Station 44. 14 May; one male.
- Leptocerus americanus* (Banks). Station 55. 14 July; one male.
- Mystacides sepulchralis* (Walker). Stations 6, 13, 40. 5 July - 4 August.
- Nectopsyche candida* (Hagen). Station 31. 2 June - 20 August.
- Nectopsyche exquisita* (Walker). Stations 6, 8, 23, 27, 34, 38, 43, 58, 59, 62, 63. 1 June - 10 August.
- Nectopsyche pavidia* (Hagen). Stations 5, 22, 34, 50, 63. 3 July - 22 August.
- Oecetis avara* (Banks). Stations 4, 6, 12, 17, 22, 25, 27, 28, 38, 41, 42, 43, 44, 56, 58, 59. 5 June - 20 September.
- Oecetis cinerascens* (Hagen). Stations 22, 33, 34, 54. 7 July - 17 October.
- Oecetis inconspicua* (Walker). Stations 1, 2, 6, 7, 9, 10, 12, 13, 15, 16, 18, 19, 22, 23, 24, 26, 27, 30, 33, 34, 35, 36, 37, 38, 39, 42, 43, 44, 45, 49, 50, 52, 53, 54, 58, 59, 60, 61, 62, 63, 65. 30 April - 23 September.
- Oecetis nocturna* Ross. Stations 11, 26, 28, 30, 43, 46, 64. 26 June - 10 September.
- Oecetis persimilis* (Banks). Stations 6, 9, 20, 46, 58, 59, 62. 1 June - 17 August.
- Setodes incerta* (Walker). Stations 58, 59. 25 June - 26 August.
- Trienodes flavescens* Banks. Stations 38, 59. 30 July - 31 August.
- Trienodes ignitus* (Walker). Stations 7, 62. 30 April - 6 June.
- Trienodes injustus* (Hagen). Stations 27, 50, 54, 58. 20 June - 2 August.
- Trienodes marginatus* Sibley. Stations 58, 59. 1 July - 19 August.
- Trienodes pernus* Ross. Station 58. 18 June; one male.
- Trienodes tardus* Milne. Station 50. 5 August; two males.

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